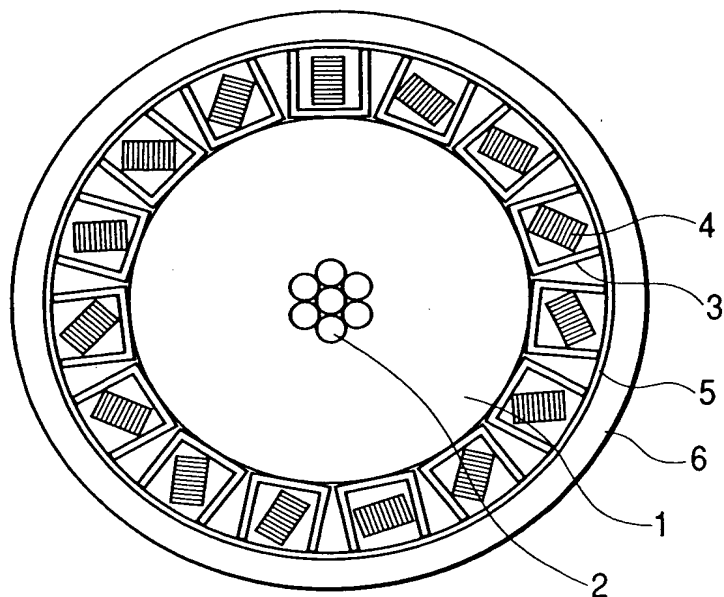
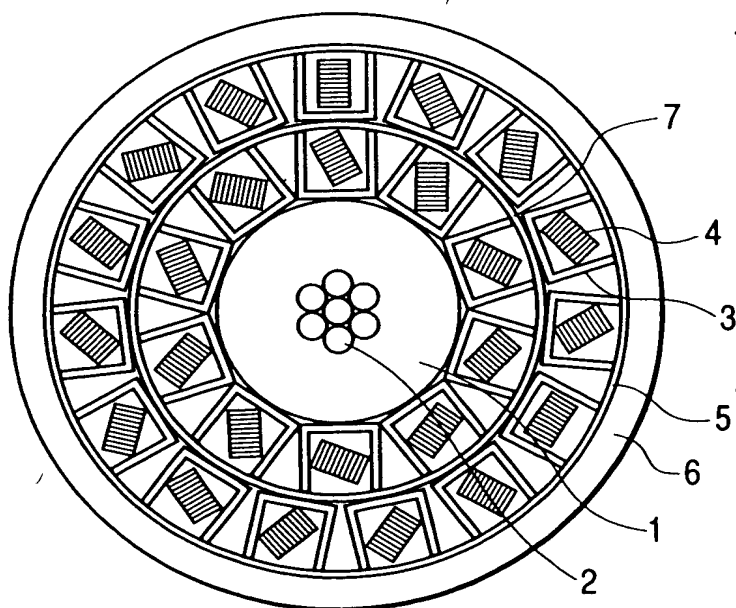


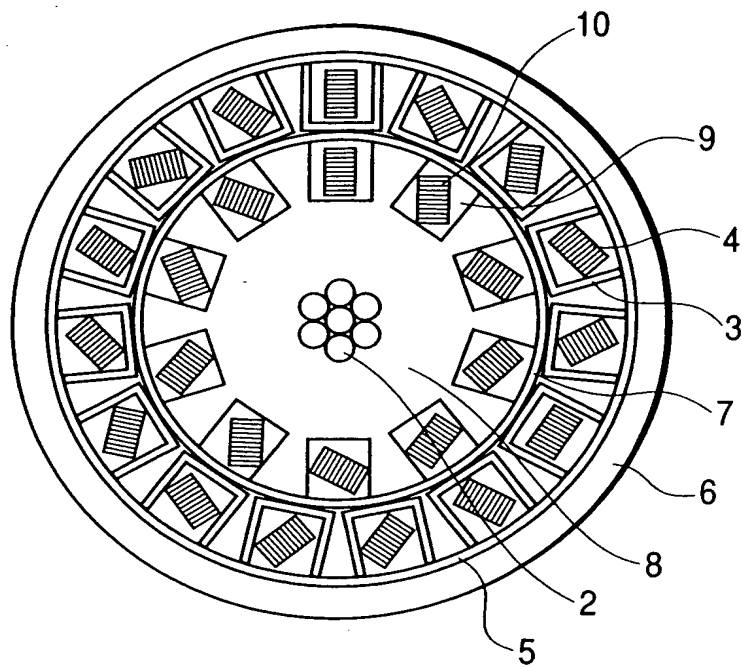
*FIG. 1*



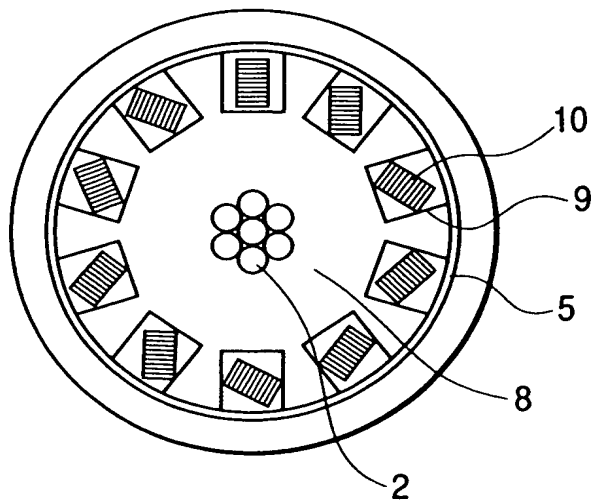
*FIG. 2*



*FIG. 3*



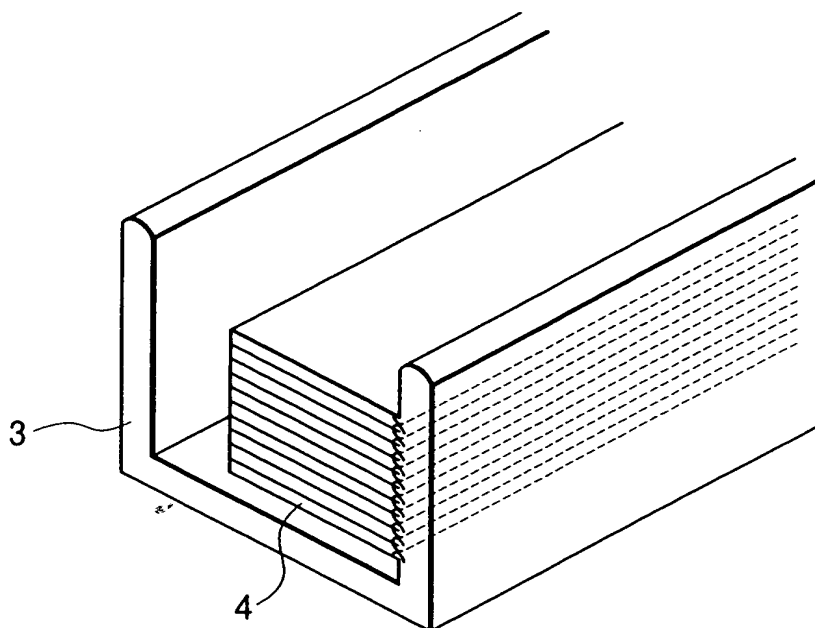
*FIG. 4*





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**FIG. 5A**



**FIG. 5B**

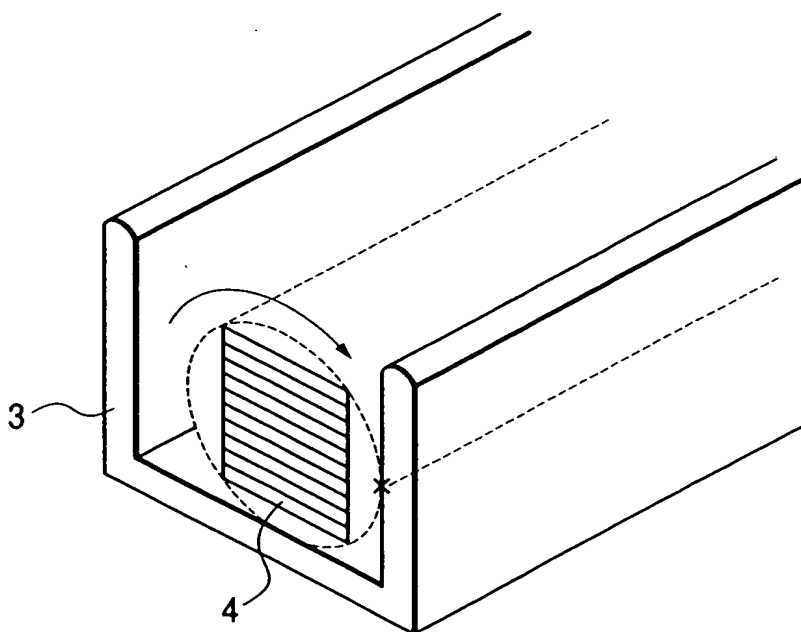




FIG. 6

| CABLE             | ONE-GROOVE SPACER  |                   | MAXIMUM TRANSMISSION LOSS                           |      |      |      |
|-------------------|--------------------|-------------------|---|------|------|------|
|                   |                    |                   | TWISTING PITCH LENGTH OF OPTICAL FIBER RIBBONS (mm) |      |      |      |
|                   | TWISTING DIRECTION | PITCH LENGTH (mm) | 1000  | 700  | 600  | 400  |
| FIRST EMBODIMENT  | S TWISTING         | 700               | 0.28  | 0.24 |      | 0.23 |
|                   | SZ TWISTING        | 700               | 0.26  | 0.25 | 0.22 | 0.21 |
| SECOND EMBODIMENT | S TWISTING         | INNER LAYER 700   | 0.27  | 0.23 |      | 0.22 |
|                   | SZ TWISTING        | OUTER LAYER 700   | 0.28  | 0.24 |      | 0.23 |
|                   | S TWISTING         | INNER LAYER 700   | 0.25  | 0.25 | 0.21 | 0.21 |
|                   | SZ TWISTING        | OUTER LAYER 700   | 0.26  | 0.25 | 0.22 | 0.21 |
| THIRD EMBODIMENT  | S TWISTING         | 700               | 0.28  | 0.24 |      | 0.23 |
|                   | SZ TWISTING        | 700               | 0.26  | 0.25 | 0.22 | 0.21 |

FIG. 7 (Prior Art)

